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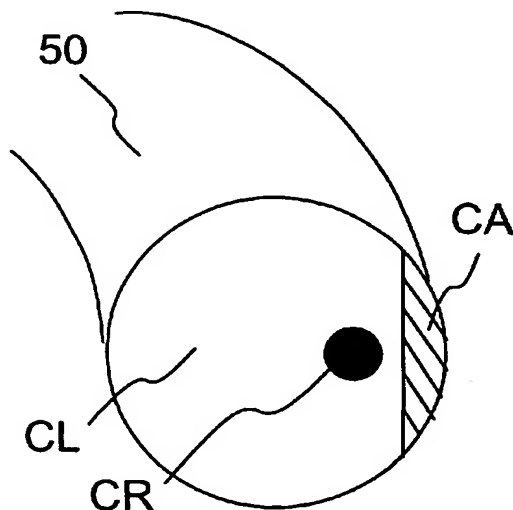
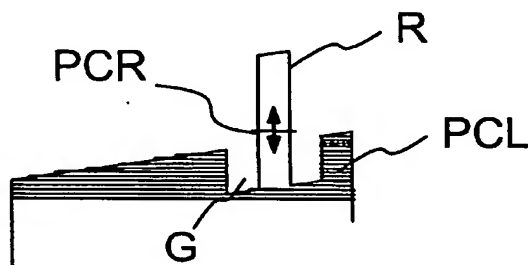
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[Continued on next page]

(54) Title: **METHOD AND DEVICE FOR SPECTRAL FILTERING-**



(57) **Abstract:** The invention refers to a method and a device in optical fiber based spectral filtering, where a length of an optical fiber (40) comprising at least a core region (CR) surrounded by a cladding region (CL) is coiled over its length in whole or in part to subject the fiber to longitudinal curvature in order to affect the optical transmission properties of the fiber. According to the invention the fiber (50) is arranged to have radially asymmetric refractive index distribution (R) and in addition to coiling the fiber lengthwise, the fiber is over its length in whole or in part also twisted around its longitudinal axis. The invention can be used to significantly improve the performance of fiber based filtering devices.

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